Seat No.: _		Enrolment No GUJARAT TECHNOLOGICAL UNIVERSITY M.E. SEMESTER III–EXAMINATION – WINTER 2015	
Time	: 2:30	Vame: INDUSTRIAL WASTEWATER MANAGEMENT OPM to 5:00 PM Total Marks: 7	
Instr			
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1		Explain following methods to reduce the volume of wastewater in detail with examples.	14
	Ι	Classification of wastewater	
	П	Changing the production Technology	
	Ш		
Q.2	(a)	Give the difference between effluent standards and stream standards.	07
	(b)	Enlist methods for neutralization of acidic waste. Explain any one in detail.	07
		OR	
	(b)	Enlist methods for neutralization of alkaline waste. Explain any one in detail.	07
Q.3	(a)		14
	I		
	Π	Treatability study options for CETP OR	
Q.3	(a)	What is the purpose of equalization of wastewater? Enlist methods of	07
	(4)	mixing and explain any one in detail.	0.
	(b)		07
Q.4	(a)	Enlist and explain in detail the points to be considered while selecting a river for disposal of effluent.	14
		OR	
Q.4	(a)	Enlist and explain in detail the points to be considered while selecting an ocean for disposal of effluent.	14
Q.5	(a)	Explain manufacturing process of chrome tanning with diagram indicating sources of wastewater generation. Also write the major characteristics of combined effluent and explain effluent treatment diagram with neat sketch. OR	14
Q.5	(a)		14
